

## Judging Tally Sheet Junior and Senior – Experiment



PROJECT ID NUMBER: \_\_\_\_\_

PROJECT TITLE: \_\_\_\_\_

### **A. Scientific value**

#### **Problem or Hypothesis**

Score (0-10) \_\_\_\_\_

Clearly stated? Provided direction for the project?

Can the student explain why they found it interesting?

#### **Background and Sources**

Score (0-10) \_\_\_\_\_

Evidence of background reading or other background research?

Multiple, independent sources used and verified? Sources used were credible?

Were outside sources properly credited?

#### **Experimental Design**

Score (0-10) \_\_\_\_\_

Was the experiment appropriate at testing the hypothesis?

Understanding of controls? Understanding of variables that can be manipulated?

Understanding of the effect of variables that cannot be manipulated?

Adequate replication?

#### **Recording and Presentation of Data**

Score (0-10) \_\_\_\_\_

Did student record data adequately during experiment?

Did student understand the technology used in collecting data?

Did the student identify key points and concepts?

Data presented clearly (figures, graphs, tables)? Was data presented in the appropriate format?

#### **Inferences from Data**

Score (0-10) \_\_\_\_\_

Did student understand sources of error? Were errors accounted for?

Did the student understand the limitations of the experiment?

Were extrapolations of data appropriate?

Was appropriate statistical analysis performed? Does student understand statistical significance?

Acknowledgments of unknowns and areas that require research?

Did the student show critical thinking and analytical skills?

#### **Conclusions**

Score (0-10) \_\_\_\_\_

Justified by data?

Clearly presented?

Could the student relate results to their Problem or Hypothesis?

Was help with the project adequately acknowledged (e.g. parents, teachers)?

Section A total \_\_\_\_\_  
(Maximum 60 points)

